INTERNATIONAL SEARCH REPORT

PCT/IB2004/003194

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 E21C37/16 F42D F42D1/20 F42D1/22 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 E21C F42D Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X WO 02/42711 A (COLLINSWORTH STEPHEN 1,2,4-7MITCHELL; HEINKE NILS ALBERTO (US); INTERNAT TEC) 30 May 2002 (2002-05-30) page 1, line 14 - page 2, line 14 page 14, line 12 - page 15, line 3 Υ 3,8-16Y WO 00/60301 A (ROCKTEK LTD; MICKE BRIAN 3,8-16(US); GAVRILOVIC MIHAILO (US)) 12 October 2000 (2000-10-12) page 7, lines 21-27 page 8, lines 19-22 Α WO 03/060290 A (VAN DYK ANDRE) 1-16 24 July 2003 (2003-07-24) page 7, line 3 - page 8, line 2 -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention *E* earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled *P* document published prior to the international filing date but later than the priority date claimed in the art. "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 14 December 2004 30/12/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Garrido Garcia, M Fax: (+31-70) 340-3016

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